

What is claimed is:

1 1. A mobile communication terminal for performing reception  
2 and transmission using an adaptive array method, the mobile  
3 communication terminal being provided with (a) a plurality of  
4 antennas, (b) reception means for forming a directivity pattern  
5 for receiving a desired reception signal and receiving the  
6 reception signal using the formed directivity pattern, and (c)  
7 transmission means for transmitting a transmission signal using  
8 the directivity pattern formed in reception, the mobile  
9 communication terminal comprising:

10 detection means for detecting a reception error in the  
11 reception signal; and

12 transmission control means for controlling the  
13 transmission means when the detection means detects the  
14 reception error so that a pattern different from the directivity  
15 pattern formed in reception is formed and the transmission  
16 signal is transmitted in the formed pattern.

1 2. The mobile communication terminal of Claim 1,

2 wherein when the detection means detects the reception  
3 error, the transmission control means controls the transmission  
4 means so that the non-directional pattern is formed using one  
5 of the plurality of antennas, and the transmission signal is  
6 transmitted in the non-directional pattern.

1 3. The mobile communication terminal of Claim 2,

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2            wherein when the detection means detects the reception  
3 error, the transmission control means controls the transmission  
4 means so that the non-directional pattern is formed using one  
5 of the plurality of antennas that has the largest antenna gain,  
6 and the transmission signal is transmitted in the  
7 non-directional pattern.

1    4.    The mobile communication terminal of Claim 2 further  
2 comprising:

3            selection means for measuring a quality of the reception  
4 signal for each of the plurality of antennas and selecting an  
5 antenna with the highest reception quality,

6            wherein when the detection means detects the reception  
7 error, the transmission control means controls the transmission  
8 means so that the non-directional pattern is formed using the  
9 antenna selected by the selection means, and the transmission  
10 signal is transmitted in the non-directional pattern.

1    5.    A communication method used for a mobile communication  
2 terminal for performing reception and transmission using an  
3 adaptive array method, the mobile communication terminal being  
4 provided with (a) a plurality of antennas, (b) reception means  
5 for forming a directivity pattern for receiving a desired  
6 reception signal and receiving the reception signal using the  
7 formed directivity pattern, and (c) transmission means for  
8 transmitting a transmission signal using the directivity

9 pattern formed in reception, the mobile communication terminal  
10 comprising:

11 detection step for detecting a reception error in the  
12 reception signal; and

13 transmission control step for controlling the  
14 transmission means when the detection step detects the  
15 reception error so that a pattern different from the directivity  
16 pattern formed in reception is formed and the transmission  
17 signal is transmitted in the formed pattern.

1 6. The communication method of Claim 5,  
2 wherein when the detection step detects the reception  
3 error, the transmission control step controls the transmission  
4 means so that the non-directional pattern is formed using one  
5 of the plurality of antennas, and the transmission signal is  
6 transmitted in the non-directional pattern.

1 7. The communication method of Claim 6,  
2 wherein when the detection step detects the reception  
3 error, the transmission control step controls the transmission  
4 means so that the non-directional pattern is formed using one  
5 of the plurality of antennas that has the largest antenna gain,  
6 and the transmission signal is transmitted in the  
7 non-directional pattern.

1 8. The communication method of Claim 6 further comprising:  
2 selection step for measuring a quality of the reception

3 signal for each of the plurality of antennas and selecting an  
4 antenna with the highest reception quality,

5 wherein when the detection step detects the reception  
6 error, the transmission control step controls the transmission  
7 means so that the non-directional pattern is formed using the  
8 antenna selected by the selection step, and the transmission  
9 signal is transmitted in the non-directional pattern.

1 9. A program to be executed by a computer in a mobile  
2 communication terminal for performing reception and  
3 transmission using an adaptive array method, the mobile  
4 communication terminal being provided with (a) a plurality of  
5 antennas, (b) reception means for forming a directivity pattern  
6 for receiving a desired reception signal and receiving the  
7 reception signal using the formed directivity pattern, and (c)  
8 transmission means for transmitting a transmission signal using  
9 the directivity pattern formed in reception, the mobile  
10 communication terminal comprising:

11 detection step for detecting a reception error in the  
12 reception signal; and

13 transmission control step for controlling the  
14 transmission means when the detection step detects the  
15 reception error so that a pattern different from the directivity  
16 pattern formed in reception is formed and the transmission  
17 signal is transmitted in the formed pattern.

1 10. The program of Claim 9,

2            wherein when the detection step detects the reception  
3 error, the transmission control step controls the transmission  
4 means so that the non-directional pattern is formed using one  
5 of the plurality of antennas, and the transmission signal is  
6 transmitted in the non-directional pattern.

1    11.    The program of Claim 10,

2            wherein when the detection step detects the reception  
3 error, the transmission control step controls the transmission  
4 means so that the non-directional pattern is formed using one  
5 of the plurality of antennas that has the largest antenna gain,  
6 and the transmission signal is transmitted in the  
7 non-directional pattern.

1    12.    The program of Claim 10 further comprising:

2            selection step for measuring a quality of the reception  
3 signal for each of the plurality of antennas and selecting an  
4 antenna with the highest reception quality,

5            wherein when the detection step detects the reception  
6 error, the transmission control step controls the transmission  
7 means so that the non-directional pattern is formed using the  
8 antenna selected by the selection step, and the transmission  
9 signal is transmitted in the non-directional pattern.

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